## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization

19 February 2004 (19.02.2004)

International Bureau



(10) International Publication Number WO 2004/014334 A1

(51) International Patent Classification:

A61K 7/50

(21) International Application Number:

PCT/JP2003/010140

(22) International Filing Date: 8 August 2003 (08.08.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2002-232734

9 August 2002 (09.08.2002)

(71) Applicant (for all designated States except US): KAO CORPORATION [JP/JP]; 14-10, NIHON-BASHIKAYABACHO 1-CHOME, CHUO-KU, Tokyo 103-8210 (JP).

(72) Inventor; and

(75) Inventor/Applicant (for US only): \_TERADA, Eiji [JP/JP]; C/O KAO CORPORATION RESEARCH LAB-ORATORIES, 1-3, BUNKA 2-CHOME, SUMIDA-KU, Tokyo 131-8501 (JP).

(74) Agent: THE PATENT CORPORATE BODY ARUGA PATENT OFFICE; KYODO BLDG., 3-6, NIHON-BASHININGYOCHO 1-CHOME, CHUO-KU, Tokyo 103-0013 (JP).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HAIR DETERGENT COMPOSITIONS

(57) Abstract: AbstractProvided is a hair detergent composition comprising the following components (a), (b) and (c): (a) an anionic surfactant, (b) a monoalkyl glyceryl ether or monoalkenyl glyceryl ether having a C4-12 alkyl or alkenyl group, and (c) a silicone derivative having a group containing both a hydroxy group and a nitrogen atom as a side chain thereof bonded to a silicon atom. The hair detergent composition provides good foaming during washing and at the same time and is capable of giving excellent conditioning effects to the hair.11

